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which is typically also close **geographically**). This portion of Aka- ... Figure 5 summarizes the overall availability of **LDNS** and **ADNS** ...

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# 1 [DNS: Availability, usage, and deployment characteristics of the domain name system](#)



Jeffrey Pang, James Hendricks, Aditya Akella, Roberto De Prisco, Bruce Maggs, Srinivasan Seshan

 October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

Publisher: ACM Press

 Full text available: pdf(856.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Domain Name System (DNS) is a critical part of the Internet's infrastructure, and is one of the few examples of a robust, highly-scalable, and operational distributed system. Although a few studies have been devoted to characterizing its properties, such as its workload and the stability of the top-level servers, many key components of DNS have not yet been examined. Based on large-scale measurements taken from servers in a large content distribution network, we present a detailed study of ...

**Keywords:** DNS, availability, federated

# 2 [DNS: On the responsiveness of DNS-based network control](#)



Jeffrey Pang, Aditya Akella, Anees Shaikh, Balachander Krishnamurthy, Srinivasan Seshan

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For the last few years, large Web content providers interested in improving their scalability and availability have increasingly turned to three techniques: mirroring, content distribution, and ISP multihoming. The Domain Name System (DNS) has gained a prominent role in the way each of these techniques directs client requests to achieve the goals of scalability and availability. The DNS is thought to offer the transparent and agile control necessary to react quickly to ISP link failures or ph ...

**Keywords:** DNS, network control, time-to-live

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S27 6	8	netli\$.as.	USPAT	OR	ON	2006/02/28 14:44
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Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">60215318</a>	Not Issued	159	06/30/2000	System for accelerated delivery of cached or replicated web content	GROVE, ADAM J
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<a href="#">10397679</a>	Not Issued	30	03/25/2003	System for fast recovery from losses for reliable data communication protocols	GROVE, ADAM J.
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